

Applicants: Norberto Oscar GOMEZ et al.  
Application No. 10/712,105

**Amendments to the Claims:**

This listing of claims will replace all prior versions, or listings, of claims in the application:

**Listing of Claims:**

Claim 1 (original): A hollow cap comprising:

a radially surrounding sidewall;

a top that radially extends from a substantially central cap opening to an end of the top at the sidewall of the cap;

a post adapted for sealingly engaging a receiver opening of a receiver piece;

a support structure supporting the post in a spaced position from the cap opening; and

an internal cap ring formed on an inner surface of the sidewall of the cap, where an outline of the support structure forms a passageway between the cap opening and a hollow space within the cap.

Claim 2 (original): The cap of claim 1, wherein the support structure contacts an inner surface of the top.

Claim 3 (original): The cap of claim 1, wherein the support structure connects the post to opposite sides of the cap.

Claim 4 (original): The cap of claim 1, wherein the cap ring forms a sealing surface with a contact surface of the receiver piece.

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Claim 5 (original): The cap of claim 1, wherein the top forms a ledge over the sidewall.

Claim 6 (original): The cap of claim 1, wherein the top is a radial ramp that radially ramps down from the substantially central cap opening to the end of the top at the sidewall.

Claim 7 (original): The cap of claim 6, wherein the radial ramp is concave, convex or linear.

Claim 8 (original): A closure arrangement comprising:

a hollow cap comprising a radially surrounding sidewall, a top that radially extends from a substantially central cap opening to an end of the top at the sidewall, a post, a support structure supporting the post in a spaced position from the cap opening, and an internal cap ring formed on an inner surface of the sidewall of the cap, an outline of the support structure forming a passageway between the cap opening and a hollow space within the cap; and

a receiver piece comprising a radially surrounding sidewall, a substantially central receiver opening for sealingly receiving the post of the cap, a receiver ring formed around an outer surface of the sidewall of the receiver piece, where the receiver opening extends completely through the receiver piece and the receiver ring is adapted to lock the cap ring when the cap is pulled away from the receiver piece.

Claim 9 (original): The arrangement of claim 8, wherein the support structure contacts an inner surface of the top.

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Claim 10 (original): The arrangement of claim 8, wherein the support structure connects the post to opposite sides of the cap.

Claim 11 (original): The arrangement of claim 8, wherein the cap ring forms a sealing surface with a contact surface of the receiver piece.

Claim 12 (original): The arrangement of claim 8, wherein the receiver ring forms a sealing surface with a contact surface of the cap.

Claim 13 (original): The arrangement of claim 8, wherein the cap further comprises a snap ring formed on the inner surface of the sidewall of the cap to snap over the receiver ring when the cap is in a fully closed position.

Claim 14 (original): The arrangement of claim 8, wherein the top forms a ledge over the sidewall.

Claim 15 (original): The arrangement of claim 8, wherein the top is a radial ramp that radially ramps down from the substantially central cap opening to the end of the top at the sidewall.

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Claim 16 (original): The arrangement at claim 15, wherein the radial ramp is linear, concave or convex.

Claim 17 (original): A container comprising the arrangement of claim 8.

Claim 18 (original): The container of claim 17, comprising a neck comprising the receiver piece integrally molded therewith.

Claim 19: cancelled

Claim 20 (currently amended) The dispenser of claim ~~49-49~~, wherein the support structure contacts an inner surface of the top.

Claim 21 (currently amended) The dispenser of claim ~~49-49~~, wherein the support structure connects the post to opposite sides of the cap.

Claim 22 (currently amended) The dispenser of claim ~~49-49~~, wherein the cap ring forms a sealing surface with a contact surface of the receiver piece.

Claim 23 (currently amended) The dispenser of claim ~~49-49~~, wherein the receiver ring forms a sealing surface with a contact surface of the cap.

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Claim 24 (currently amended) The dispenser of claim ~~19-49~~, wherein the cap further comprises a snap ring formed on the inner surface of the sidewall of the cap to snap over the receiver ring when the cap is in a fully closed position.

Claim 25 (currently amended): The cap of claim ~~19-49~~, wherein the top forms a ledge over the sidewall.

Claim 26 (currently amended): The dispenser of claim ~~19-49~~, wherein the top is a radial ramp that radially ramps down from the substantially central cap opening to the end of the top at the sidewall.

Claim 27 (original): The cap of claim 26, wherein the radial ramp is concave, convex or linear.

Claim 28 (currently amended): The dispenser of claim ~~19-49~~, wherein the first end of the dispenser sidewall further comprises a dome between the dispenser sidewall and the receiver piece.

Claim 29 (original): The dispenser of claim 28, wherein the first end of the dispenser sidewall further comprises a hinged interconnection formed between the dome and the dispenser sidewall.

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Claim 30 (original): A method of making a dispenser comprising the steps of:

molding in a mold a body as one-piece;

the body comprising:

a radially surrounding dispenser sidewall having a first end that comprises:

a receiver piece comprising a radially surrounding sidewall and a receiver ring formed around an outer surface of the sidewall of the receiver piece;

forming a substantially central receiver opening on the receiver piece, where the opening extends completely through the receiver piece; and

placing on top of the receiver piece a hollow cap comprising a radially surrounding sidewall, a top that radially extends from a substantially central cap opening to an end of the top at the sidewall of the cap, a post for sealingly engaging the receiver opening, a support structure supporting the post in a spaced position from the cap opening, and an internal cap ring formed on an inner surface of the sidewall of the cap, where an outline of the support structure forms a passageway between the cap opening and hollow space within the cap and the receiver ring is adapted to lock the cap ring when the cap is pulled away from the receiver piece.

Claim 31 (currently amended): The method of claim 30-50, wherein the support structure contacts an inner surface of the top.

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Claim 32 (currently amended): The method of claim 30-50, wherein the support structure connects the post to opposite sides of the cap.

Claim 33 (currently amended): The method of claim 30-50, wherein the cap ring forms a sealing surface with a contact surface of the receiver piece.

Claim 34 (currently amended): The method of claim 30-50, wherein the receiver ring forms a sealing surface with a contact surface of the cap.

Claim 35 (currently amended): The method of claim 30-50, wherein the cap further comprises a snap ring formed on the inner surface of the sidewall of the cap to snap over the receiver ring when the cap is in a fully closed position.

Claim 36 (currently amended): The method of claim 30-50, wherein the first end of the dispenser sidewall further comprises a dome between the dispenser sidewall and the receiver piece.

Claim 37 (original): The method of claim 36, wherein the first end of the dispenser sidewall further comprises a hinged interconnection formed between the dome and the dispenser sidewall.

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Claim 38 (currently amended): The method of claim 30-50, wherein the receiver piece comprises a protrusion and the forming a substantially central receiver opening comprises trimming the protrusion to create the substantially central receiver opening.

Claim 39 (currently amended): The method of claim 30-50, further comprising the steps of:  
filling the body with a product via a second end of the body, the second end being open initially; and  
sealing the second end with a seam to create a filled dispenser.

Claim 40 (currently amended): The method of claim 30-50, wherein the top forms a ledge over the sidewall.

Claim 41 (currently amended): The method of claim 30-50, wherein the top is a radial ramp that radially ramps down from the substantially central cap opening to the end of the top at the sidewall.

Claim 42 (currently amended): The method of claim 38, wherein the radial ramp forms is concave, convex or linear.

Claim 43 (original): A hollow cap comprising:  
a radially surrounding sidewall;

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a top that radially extends from a substantially central cap opening to an end of the top at the sidewall of the cap;

a post adapted for sealingly engaging a receiver opening of a receiver piece;

a support structure supporting the post in a spaced position from the cap opening; and

a thread adapted for slidingly engaging a ramp of the receiver piece to slide the cap up or down the ramp.

Claim 44 (original): The cap of claim 43, wherein the support structure contacts an inner surface of the top.

Claim 45 (original): The cap of claim 43, wherein the support structure connects the post to opposite sides of the cap.

Claim 46: cancelled

Claim 47 (currently amended): The arrangement of claim 46-51, wherein the support structure contacts an inner surface of the top.

Claim 48 (currently amended): The arrangement of claim 46-51, wherein the support structure connects the post to opposite sides of the cap.

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Claim 49 (new): A dispenser comprising:

a dispenser sidewall molded as once piece;

a cap connected to a first end of the dispenser sidewall, the cap having:

a cap sidewall with an inner surface and defining a hollow space within the cap;

a cap ring on the inner surface of the cap sidewall;

a central cap opening;

a top extending from the cap opening to the cap sidewall;

a post;

a support structure supporting the post and defining a gap for allowing fluid movement from the hollow space of the cap into the central cap opening; and

a receiving piece for engaging the cap, the receiver piece having:

a receiver sidewall;

a receiving ring formed around an outer surface of the receiver sidewall, the receiving ring adapted to lock with the cap ring; and

a substantially central receiver opening for receiving the cap post, the opening extending through the receiver.

Claim 50 (new): A method of making a dispenser comprising the steps of:

molding a single-piece body in a mold, the body comprising a dispenser sidewall with a first end, the first end having a receiver piece with a receiver sidewall and a receiver ring

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formed around an outer surface of the sidewall of the receiver piece;

forming a substantially central receiver opening on the receiver piece, the opening extending completely through the receiver piece; and

placing on top of the receiver piece a hollow cap having a cap sidewall, a top extending from a substantially central cap opening to an end of the top at the cap sidewall, a post for sealingly engaging the receiver opening, a support structure supporting the post and defining a gap for allowing fluid movement from a hollow space within the cap into the central cap opening, an internal cap ring formed on an inner surface of the cap sidewall, and a receiver ring adapted to lock the cap ring when the cap is pulled away from the receiver piece.

Claim 51 (new): A closure arrangement comprising:

a hollow cap having:

a cap sidewall;

a top extending from a substantially central cap opening to an end of the top at the cap sidewall,

a post; and

a support structure supporting the post, the support structure defining a gap for allowing fluid communication from a hollow space within the cap into the central opening; and

a thread; and

a receiver piece having:

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a receiver sidewall,  
a substantially central receiver opening for sealingly receiving the post of the cap, the receiver opening extending completely through the receiver piece; and  
a ramp for slidingly engaging the thread of the cap to slide the cap up or down the ramp.